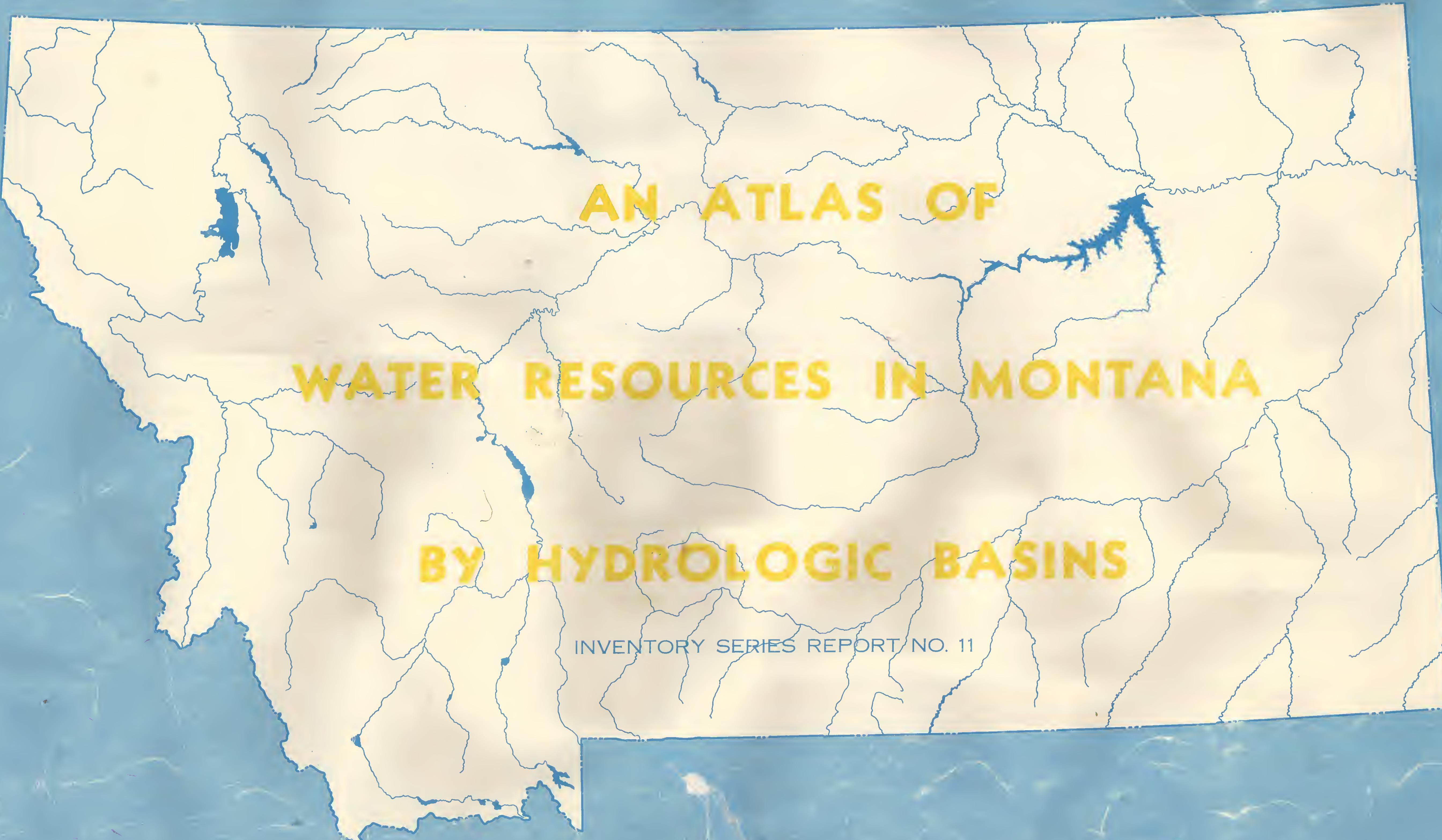


*"A Comprehensive Water and Related Land Resources Plan
for the State of Montana"*



MONTANA WATER RESOURCES BOARD
Sam W. Mitchell Building
Helena, Montana

MONTANA WATER RESOURCES BOARD



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*"A Comprehensive Water and Related Land Resources Plan
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INVENTORY SERIES REPORT NO. 11

AN ATLAS OF WATER RESOURCES IN MONTANA BY HYDROLOGIC BASIN

FOREWORD

This publication, prepared by the Montana Water Resources Board, is the eleventh in a statewide water planning series which the Board will publish utilizing funds provided by Montana's 1967 legislature together with funds obtained from the Federal Water Resources Council under Public Law 89-80. It is an inventory of surface water resources and projects which form an integral part of the inventory phase of development of the state water plan.

The data contained herein will help to lay the foundation necessary for future studies and will present a map scale upon which all future work can be based so uniform material collection and compilation will be possible. Further, it is hoped that the material will prove of interest and utility to all who are interested in water and land resources development in the state.

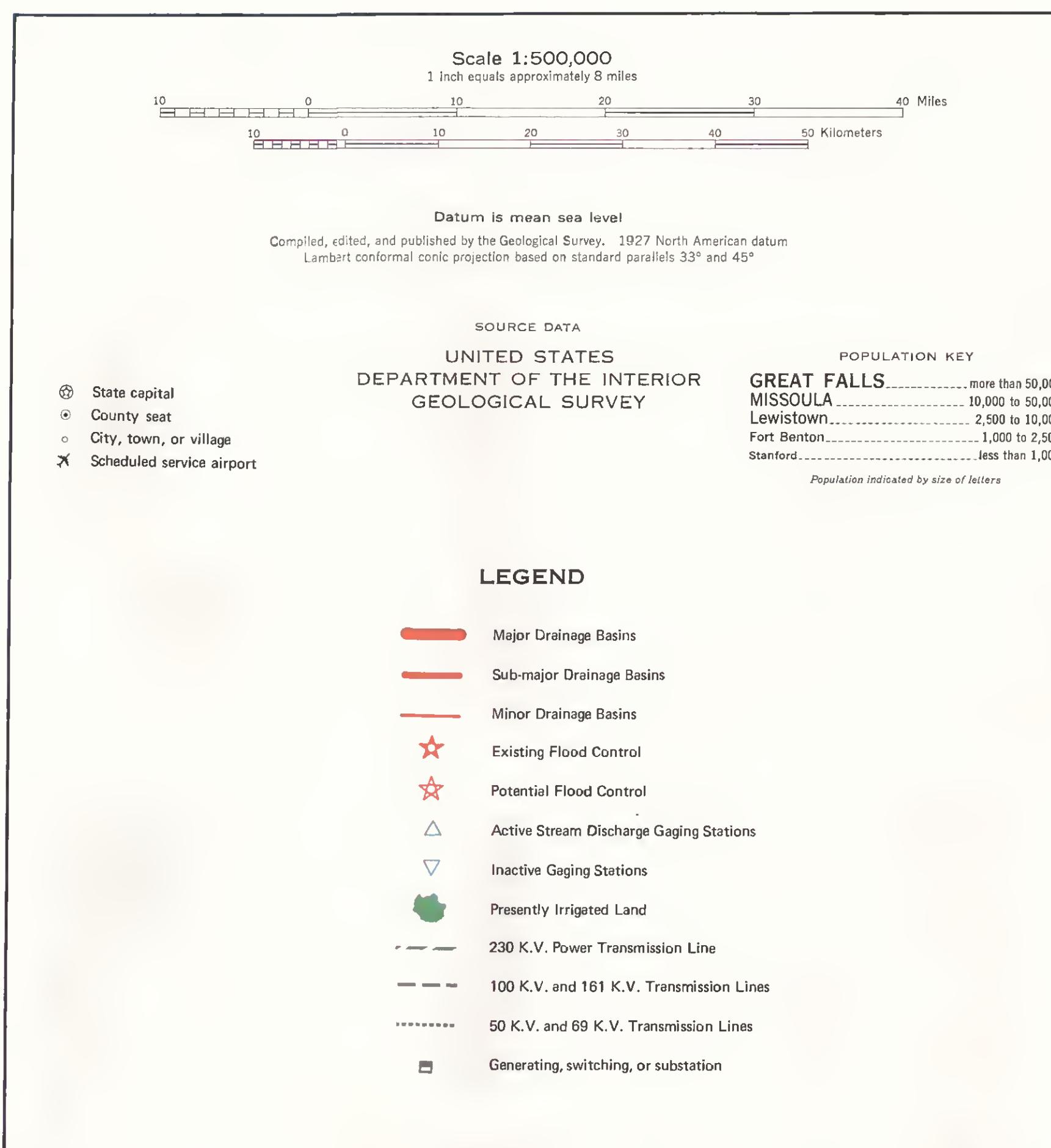
The Montana Water Resources Board wishes to express appreciation to the following organizations who made available to the Board much of the information found in this atlas:

Montana Highway Commission
State Fish and Game Department
U. S. Bureau of Reclamation
U. S. Geological Survey
Soil Conservation Service
Montana Power Company
U. S. Army Corps of Engineers

DOUGLAS G. SMITH

Director

Montana Water Resources Board



INTRODUCTION

The Montana Water Resources Board, in preparing a state water plan, has compiled an inventory of surface water resources and prepared this atlas of drainage basin maps showing some of these resources in relation to one another throughout the State of Montana.

Montana is the headwaters of three major continental drainage basins. The smallest basin which contains less than one percent of the state's total land area, is the Hudson Bay drainage located in northwestern Montana; this includes the St. Mary, the Waterton and Belly Rivers which flow northward into Hudson Bay. West of the continental divide is the Columbia basin which flows into the Pacific Ocean and contains approximately twenty percent of the state's total land area. Major tributaries to the Columbia River are the Clark Fork, Flathead, and Kootenai Rivers. About eighty percent of the Columbia basin lies east of the continental divide in the Missouri River drainage which flows to the Mississippi River and into the Gulf of Mexico. The major tributaries to the Missouri River in Montana are the Milk and Yellowstone Rivers.

In an effort to aid in data gathering for the state water plan, the state was divided into six major drainage basins based upon those streams which flow out of the state and do not re-enter the state again: the Kootenai, Clark Fork, Headwaters of the Columbia, St. Mary, Missouri, and Little Missouri. The Bella Fourche drainage of the Cheyenne River in South Dakota extends into a small area in the southeastern corner of the state.

These six major drainage basins are subdivided into fifteen sub-major drainage basins consisting of the Upper Clark Fork, Lower Clark Fork, Flathead and Kootenai River basins in the Columbia River drainage; the Upper Missouri tributaries, Missouri-Smith, Missouri-Sun-Maries, Missouri-Musselshell, Milk, and Missouri-Fort Peck basins in the Missouri River drainage; the Upper Yellowstone, Middle Yellowstone, and Lower Yellowstone River basins in the Yellowstone drainage; the St. Mary River basin in the Hudson Bay drainage; and the Little Missouri River basin.

The fifteen sub-major drainage basins have been further divided into eighty-five minor drainage basins representing the minor tributaries within the state. These eighty-five minor basins are shown on a statewide scale on page two and throughout the atlas by sub-major drainage basin at a scale of 1:500,000.

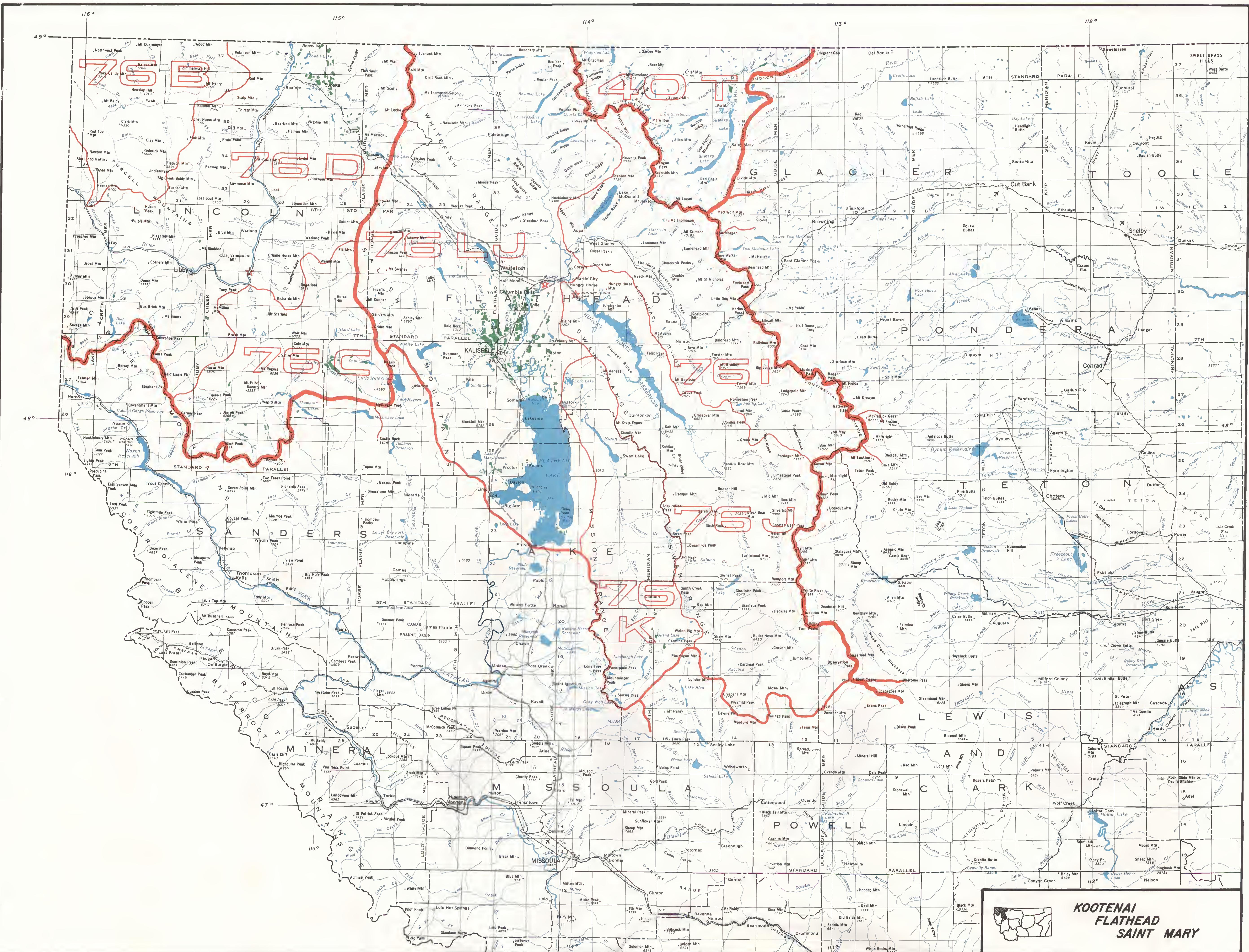
The basis for the drainage subdivisions, and the code used to represent these subdivisions, is the Office of Water Data Coordination, U. S. Department of the Interior, Geological Survey atlas of stream gaging stations. Several modifications have been made which do not significantly change any of the OWDC basins.

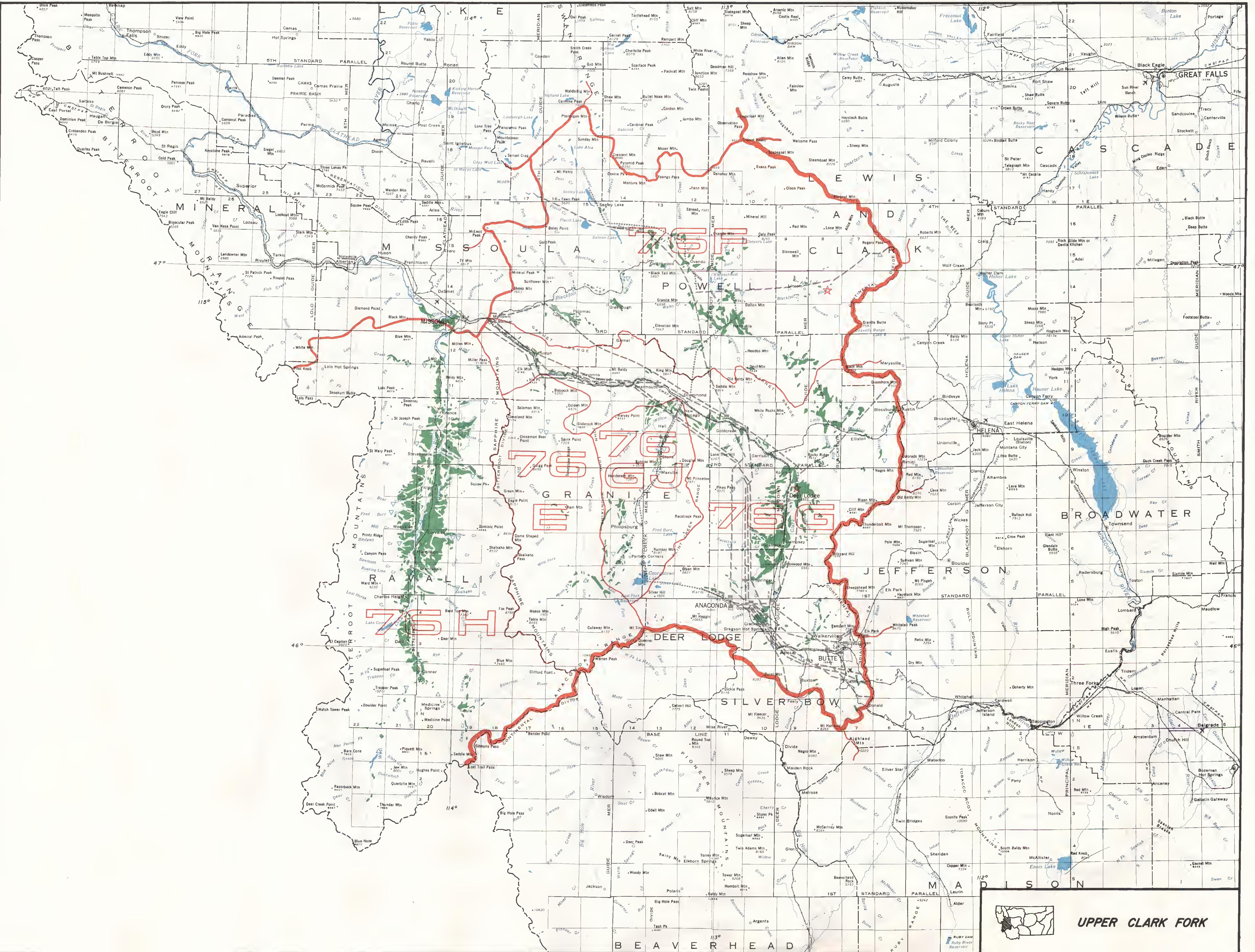
The atlas includes twelve maps showing the fifteen sub-major drainage basins with two of these maps showing more than one of the drainage basins on one map page. The maps show culture in black, power lines in grey, and streams and stream names in blue. The major, sub-major, and minor drainage basin boundary lines are shown in three significant widths of red lines. Existing and proposed flood control projects are located by red stars with open stars representing potential projects while closed stars designate existing projects. Blue triangles represent U.S.G.S. stream discharge gaging stations with righted triangles representing stations active as of January 1, 1970, and inverted triangles representing those stations, used in the past, but now discontinued. Green areas on the maps represent presently irrigated land according to the county-wide surveys being conducted by the water resources survey division, Montana Water Resources Board.

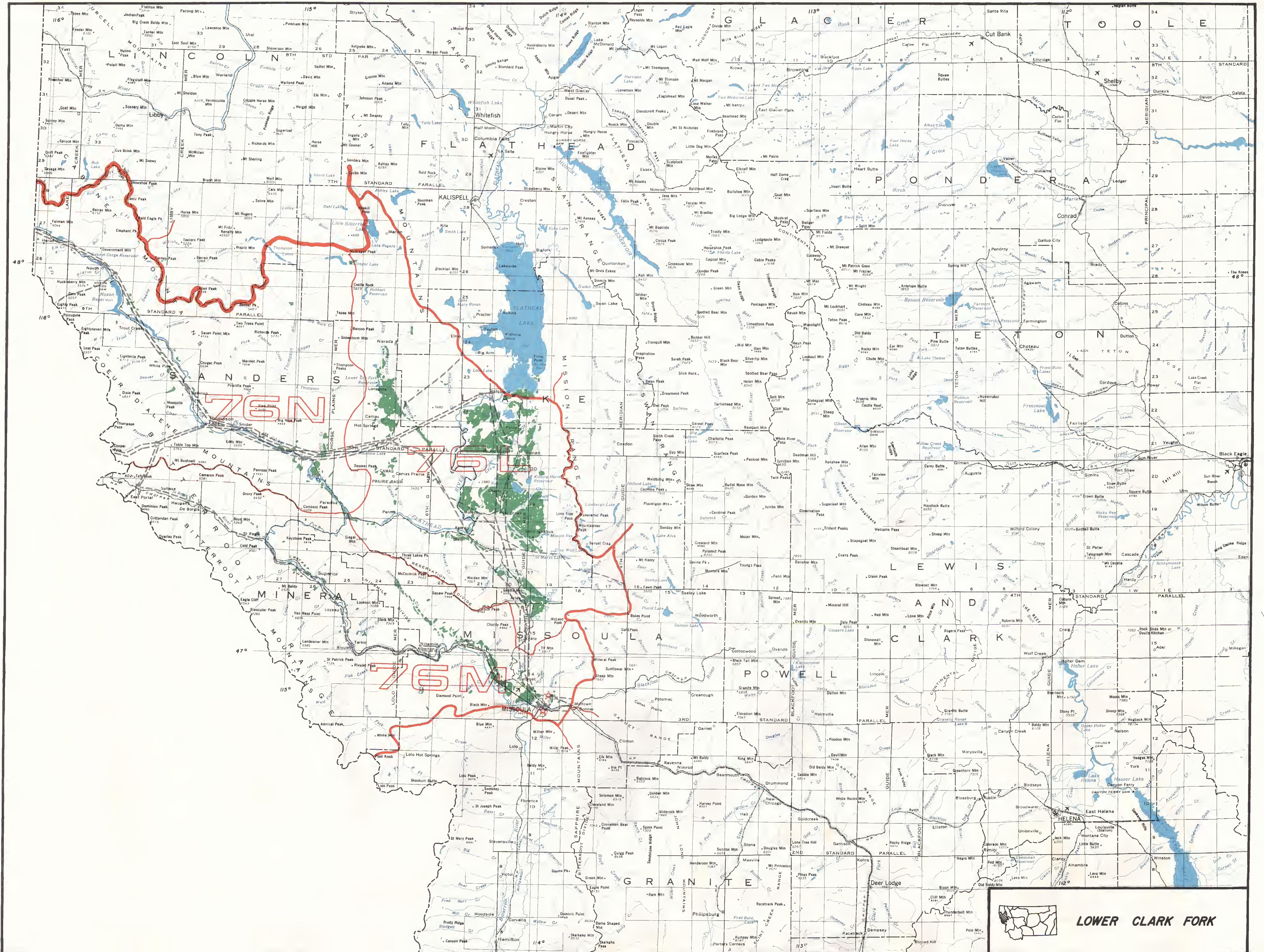
The last two maps in the atlas are prepared by the Montana Water Resources Board staff from information supplied by cooperating agencies.

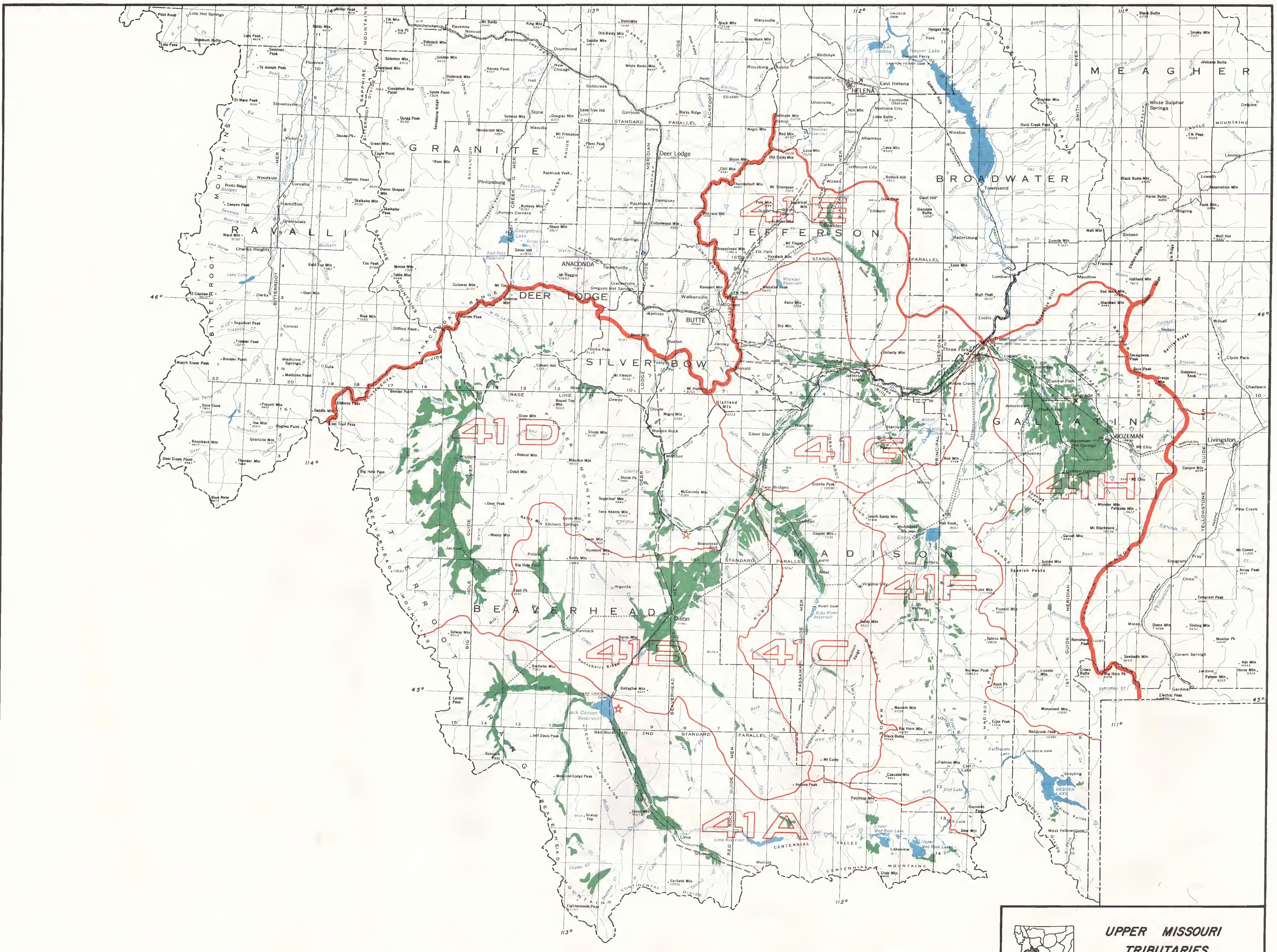
The first is one prepared through a joint effort of the Water Board and the Montana Fish and Game Department. In green are the fishing access sites, state parks and monuments, and state recreation areas maintained by the Fish and Game Department throughout the state. An index to this map provides the proper names of each of these sites as of January 1, 1970.

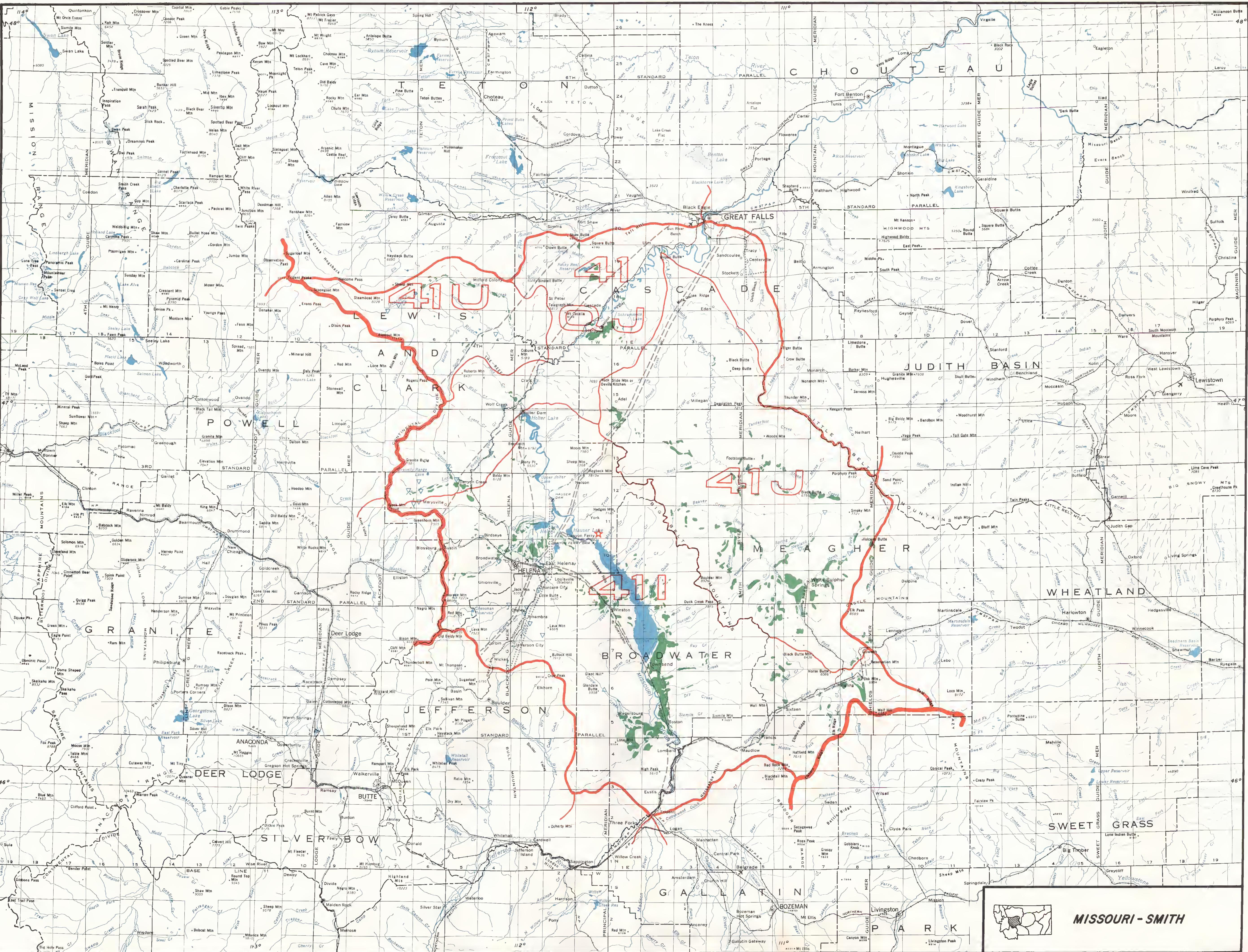
The last map in the atlas shows mountain precipitation by colored isohyet lines representing increments of annual precipitation above 20 inches. This map was prepared in cooperation with the Soil Conservation Service and the National Weather Service.



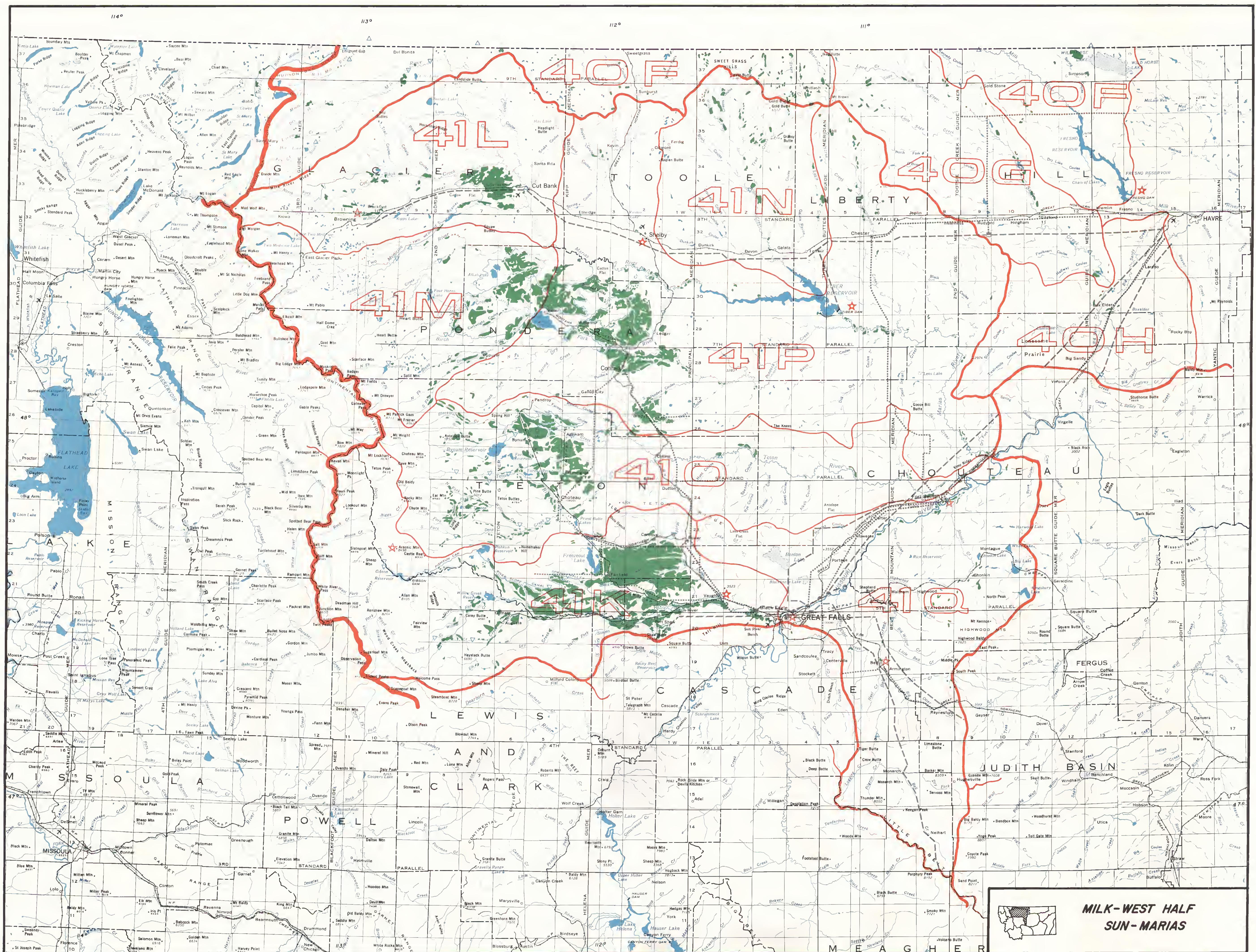


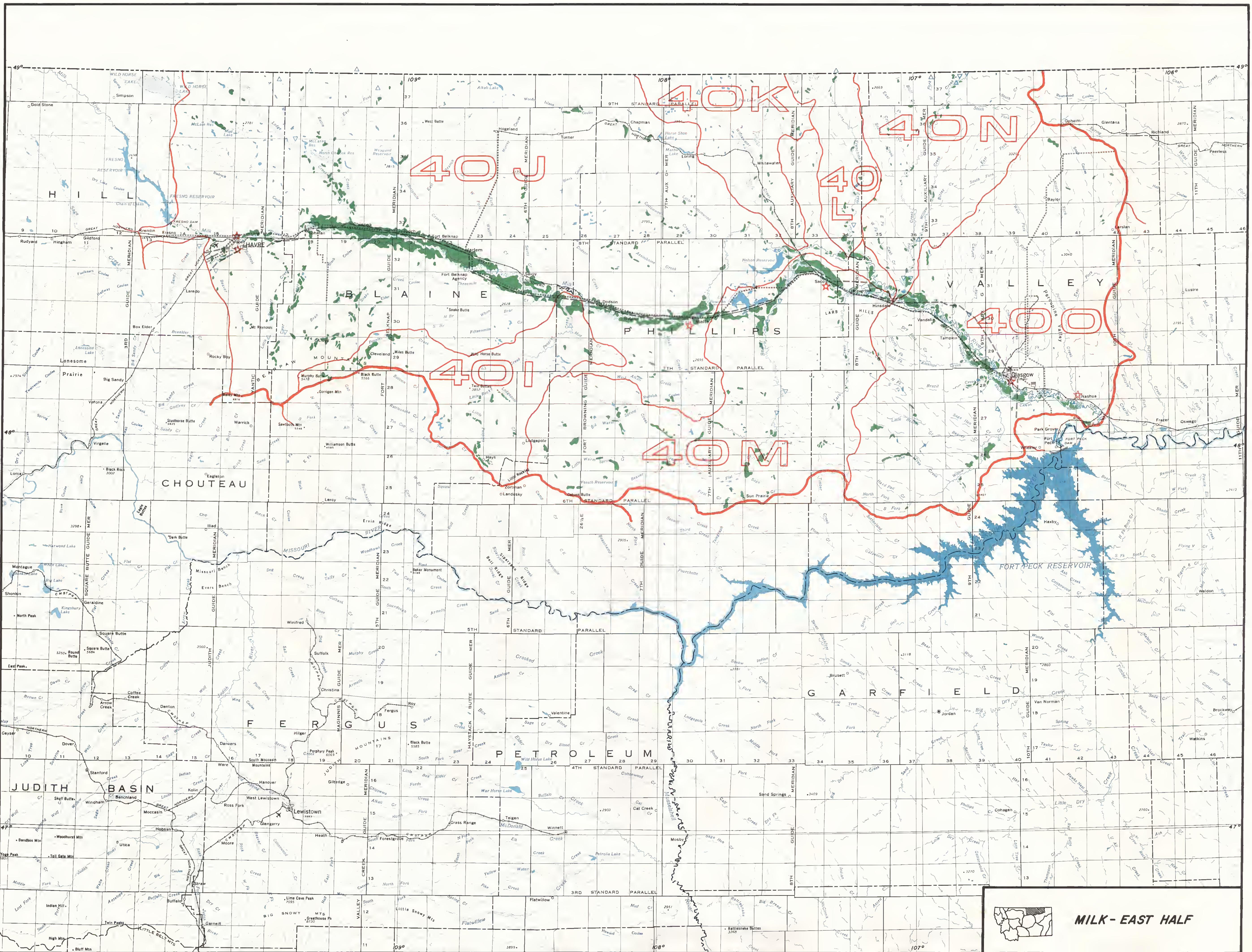


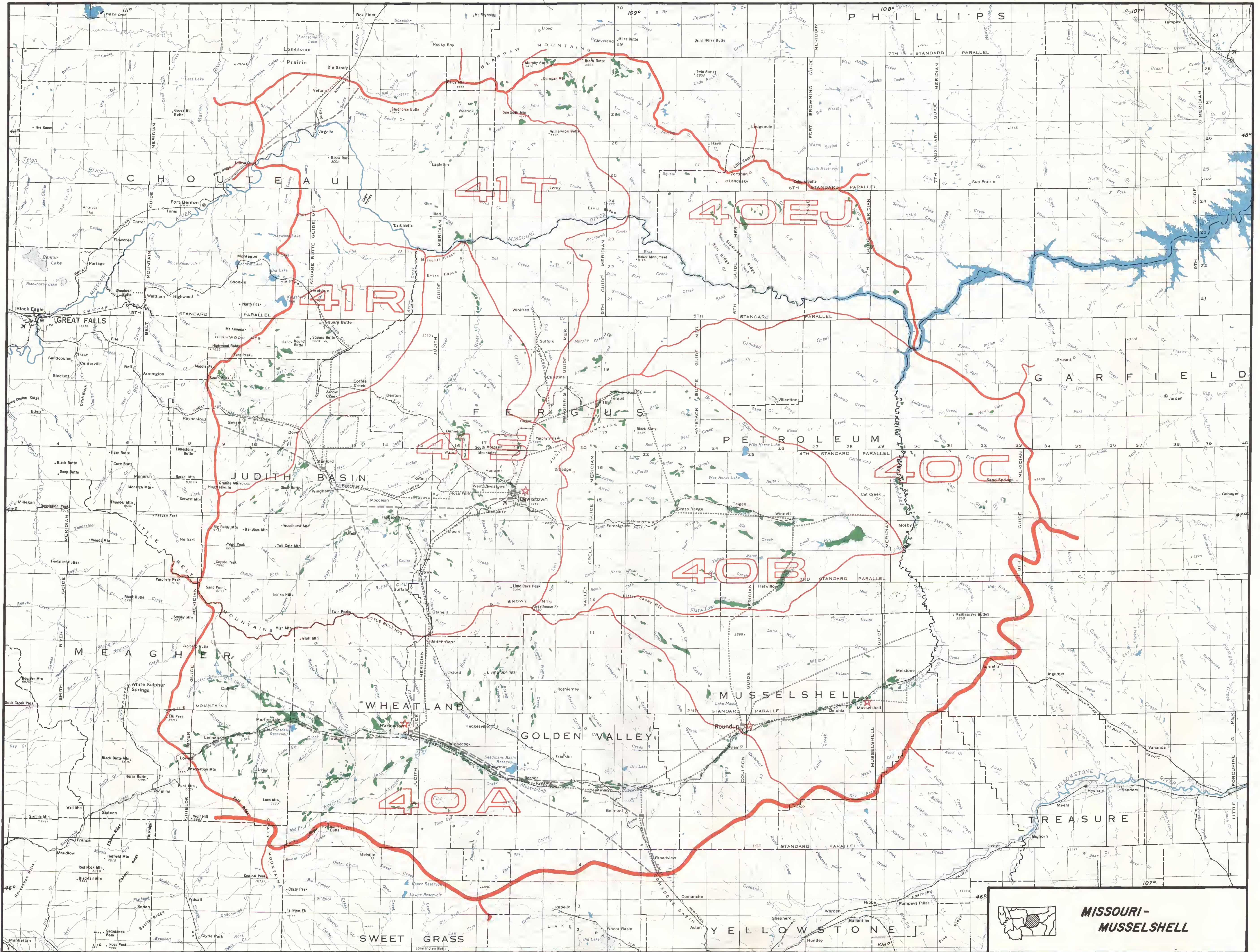


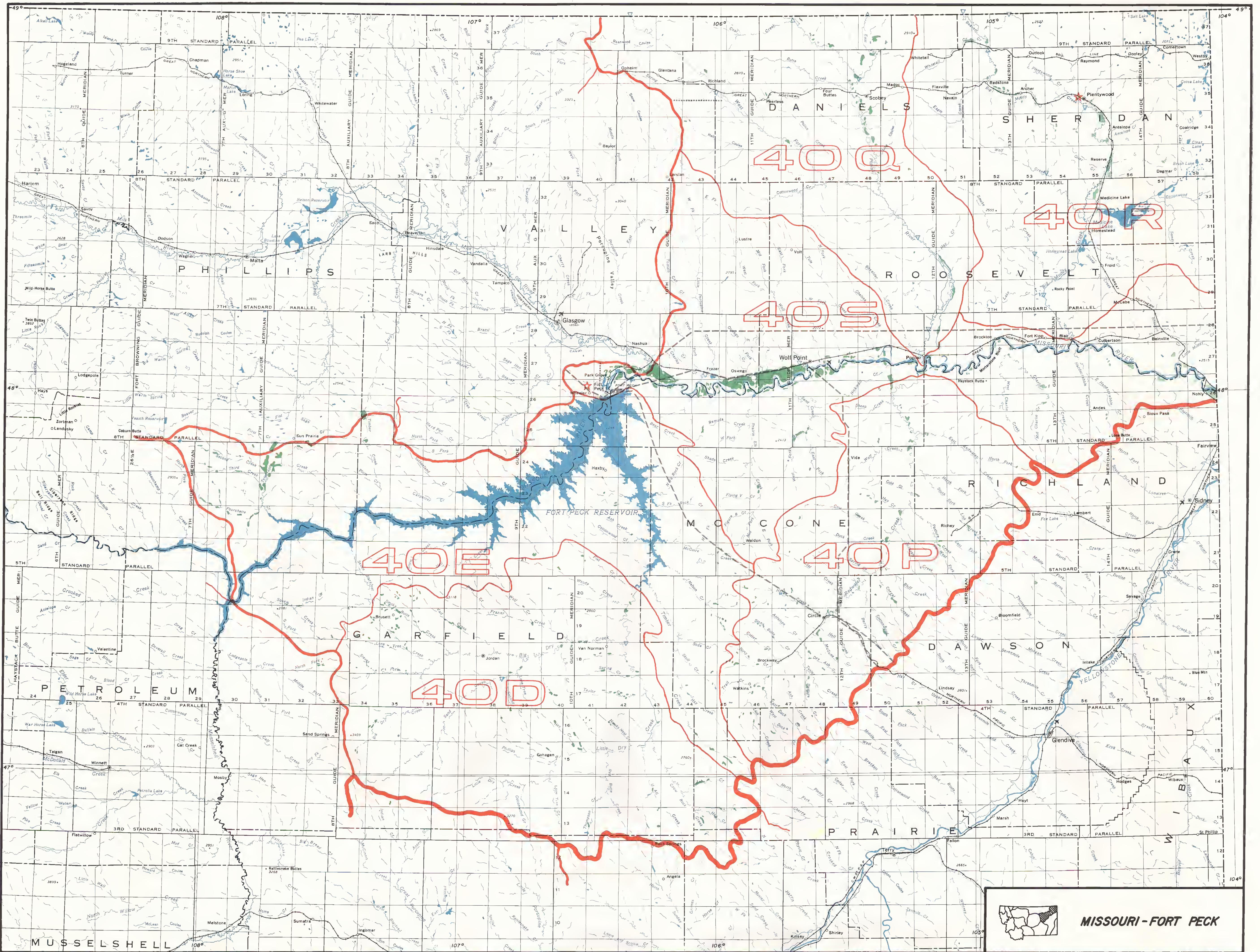


MISSOURI - SMITH

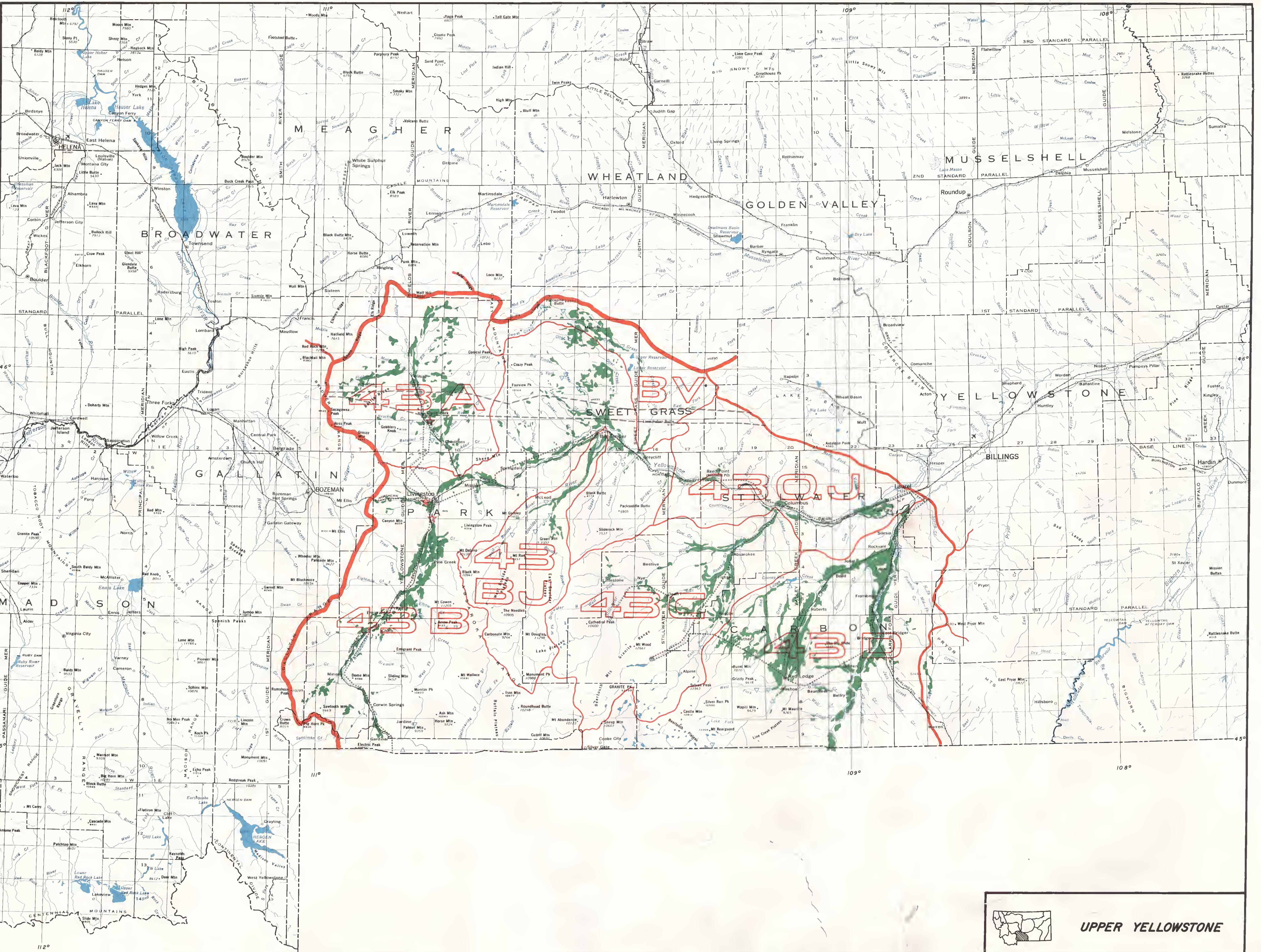




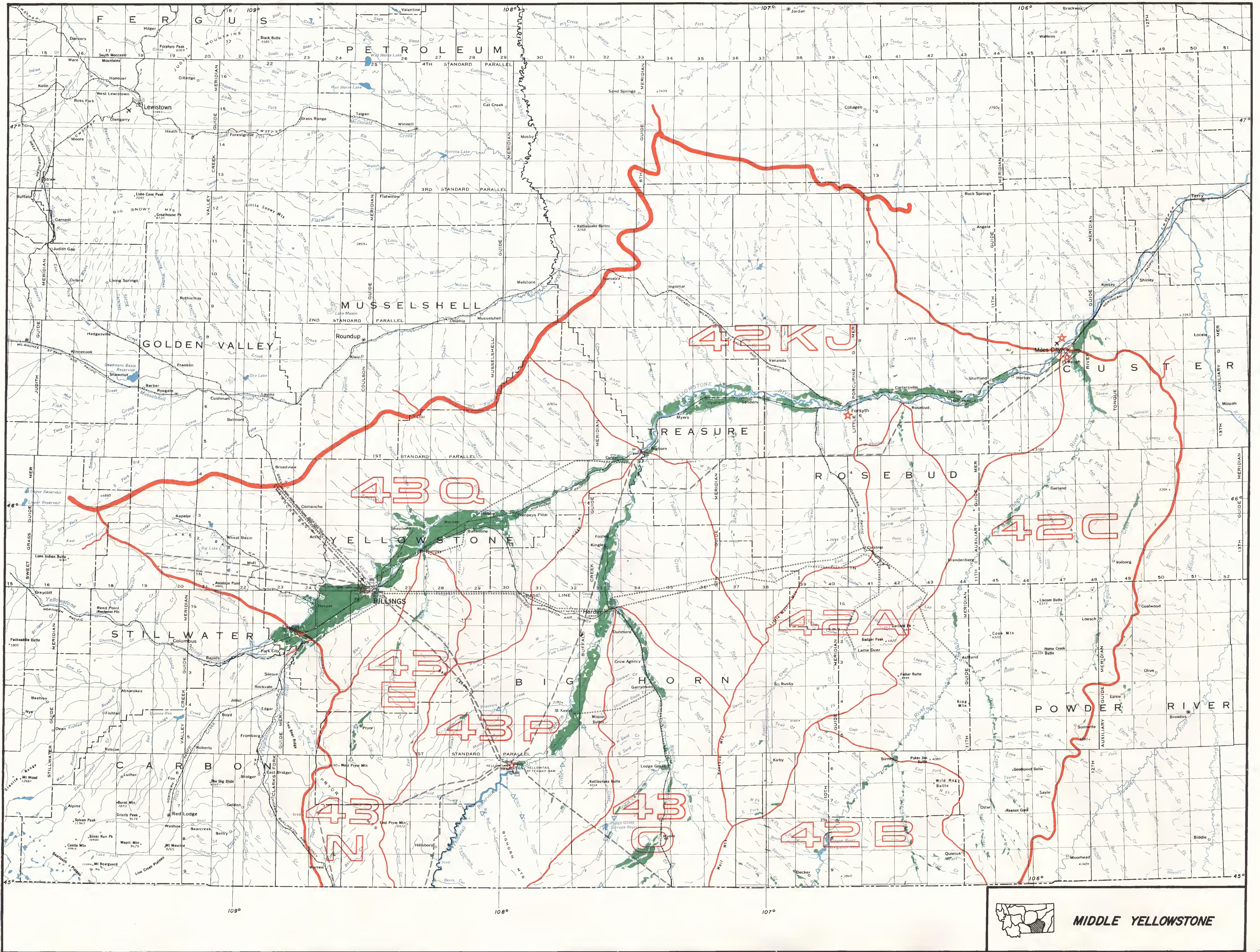


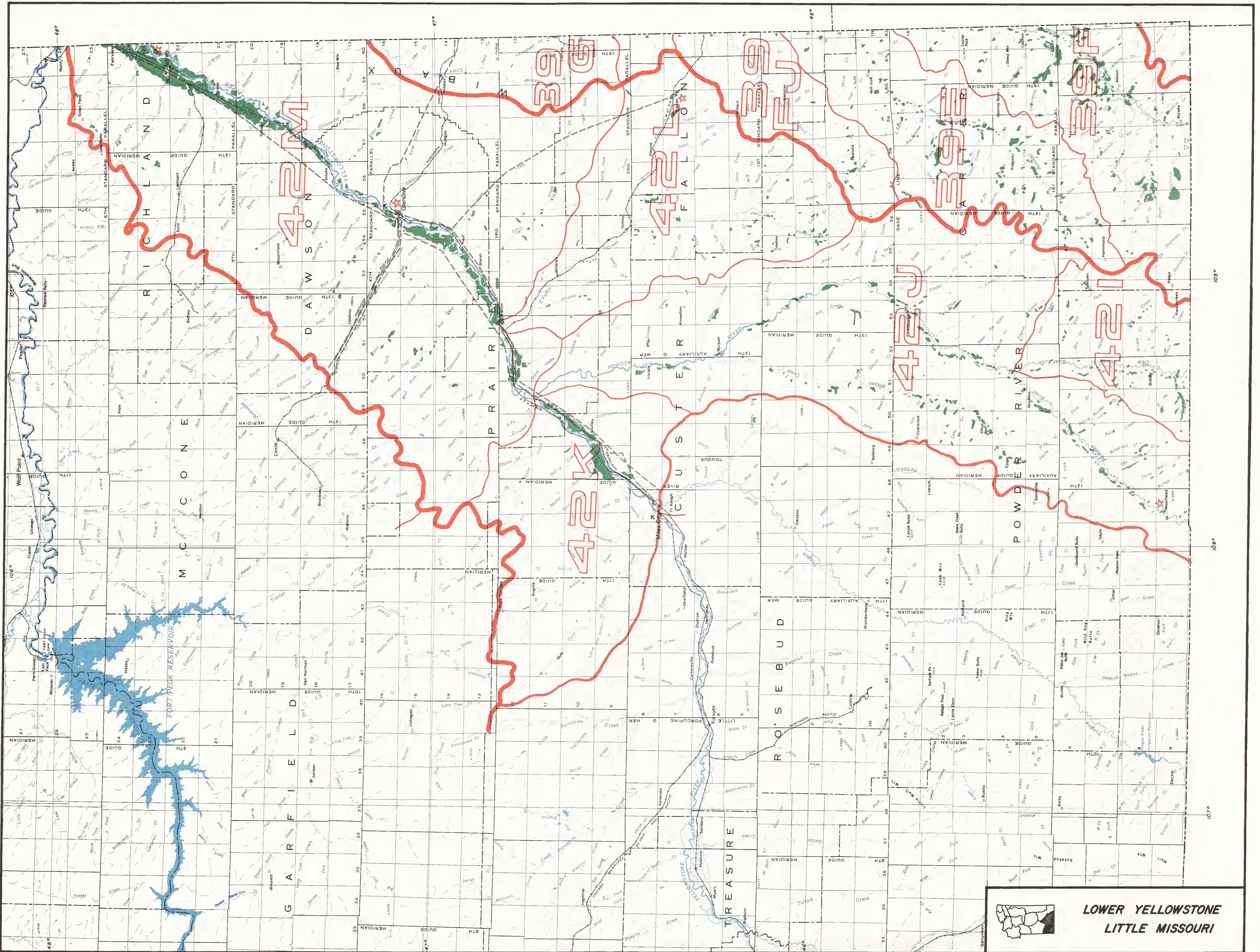


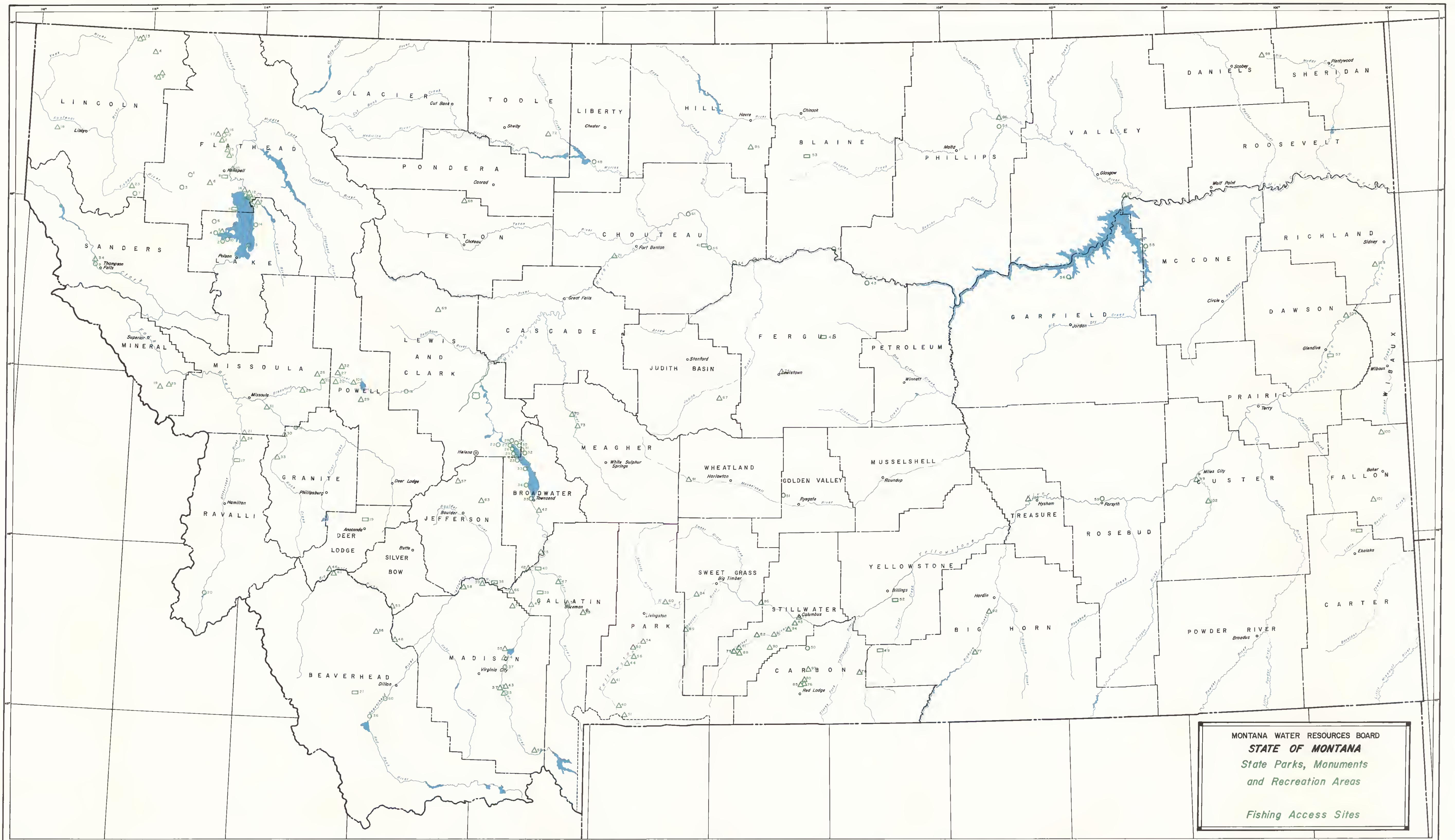
MISSOURI-FORT PECK



UPPER YELLOWSTONE







MISSOURI RIVER-WOLF CREEK CANYON RECREATION ROAD

FISHING ACCESS SITES

- District 1
 - 1. Bigfork
 - 2. Blencamp Lake
 - 3. Coopers Lake
 - 4. Glen Lake
 - 5. Juniper Beach
 - 6. Kila Lake
 - 7. Loon Lake I
 - 8. Loon Lake II
 - 9. Mari Lake
 - 34. Noxon Rapids
 - 10. Old Steel Bridge
 - 11. Pressman Bar
 - 12. Sags End
 - 13. Sevage Lake
 - 17. Styles Lake
 - 13. Sophie Lake
 - 14. Sportsman's Bridge
 - 15. Whitefish River
 - 16. Whitefish Satellite
- District 2
 - 19. Big Pine
 - 20. Box Canyon
 - 21. Chief Looking Glass
 - 22. Clearwater Crossing
 - 23. Crystal Lake
 - 24. Florence Bridge
- District 3
 - 25. Forks
 - 26. Harper Lake
 - 27. Monture
 - 28. Nine-mile Prairie
 - 29. River Junction
 - 30. Tamarack Creek
 - 31. Turah
 - 32. Upata Lake
 - 33. Welcome Creek
- District 4
 - 35. Bezemond Pond
 - 36. Brown's Lake
 - 37. Burnt Tree Hole
 - 38. Cameron Bridge
 - 39. Cordwell
 - 40. Corwin Springs
 - 41. Dailey Lake
 - 42. Deepdale
 - 43. Doublet Ford
 - 44. Ensign
 - 45. Fairweather
 - 46. Fishtrap Creek
 - 47. Four Corners
 - 48. Glen
 - 49. Greycliff
 - 50. Harrison Lake
 - 51. Link Tract
 - 52. Loch Leven
- District 5
 - 75. Absaroka
 - 76. Beaver Lodge
 - 77. Bighorn River
 - 78. Bluewater
 - 79. Buffalo Jump
- District 6
 - 67. Ackley Lake
 - 68. Arad Lake
 - 69. Bean Lake
 - 70. Fort Baker
 - 71. Carter's Ferry
 - 72. Devon Reservoir
 - 73. Smith River
 - 74. Upper and Lower Carter's Pond
- District 7
 - 99. Brannan Lake
 - 103. Gartside Dam
 - 104. Intake Dam
 - 105. Pease Bottom
 - 100. Rush Hall Reservoir
 - 101. Sportsman's Pond
 - 102. Twelve-Mile Dam

RECREATION AREAS

- District 1
 - 1. Ashley Lake
 - 2. Big Arm
 - 3. Bitterroot Lake
 - 4. Elmo
 - 5. Finley Point
 - 6. Lake Mary Ronan
 - 7. Logan
 - 9. Thompson Falls
 - 10. Walstid Memorial
 - 15. Weyfarer
 - 12. Whitefish Lake
 - 13. Woods Bay
 - 14. Yellow Bay
- District 2
 - 16. Beavertail Hill
 - 18. Hooper
 - 20. Painted Rocks
- District 3
 - 29. Court Sheriff
 - 30. Crittenden
 - 32. Helgate
 - 35. Indian Road
 - 25. Lewis and Clark
 - 26. Lorelei
 - 31. Magpie Bay
- District 4
 - 47. Cow Island
 - 48. Hole-in-the-Wall
 - 43. James Kipp
 - 45. Judith Landing
 - 44. Slaughter River
 - 48. Tiber
- District 5
 - 50. Cooney
 - 51. Deadman's Basin
- District 6
 - 54. Nelson
 - 55. Rock Creek
- District 7
 - 56. Hell Creek
 - 59. Rosebud

MONTANA WATER RESOURCES BOARD

STATE OF MONTANA

State Parks, Monuments

and Recreation Areas

Fishing Access Sites

